

Peixiao WANG

About Me



I am currently a Postdoctoral Fellow of State Key Laboratory of Resources and Environmental Information System, Institute of Geographic Sciences and Nature Resources Research, Chinese Academy of Sciences. I received Ph.D. degree from State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University in 2023, and received the M.S. degree from The Academy of Digital China, Fuzhou University in 2020. During the past years, I have published over 20 refereed journal articles and conference papers as first or corresponding author. My research focus on spatiotemporal data mining, spatiotemporal prediction, social computing, and public health. Email: peixiaowang@outlook.com

EDUCATION

◆ Jul 2023 - now: **Institute of Geographic Sciences and Nature Resources Research,** **Advisor: Prof. Feng Lu**
Chinese Academy of Sciences Beijing, China
State Key Laboratory of Resources and Environmental Information System (Postdoctoral fellow in Geographic Information Science)

EDUCATION

◆ Sep 2020-Jun 2023: **Wuhan University** **Advisor: Prof. Tong Zhang**
State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (Doctor in Geographic Information Science) Wuhan, Hubei, China

◆ Sep 2017-Jun 2020: **Fuzhou University** **Advisor: Prof. Sheng Wu**
The Academy of Digital China (Master in Surveying and Mapping Engineering) Fuzhou, Fujian, China

◆ Sep 2013-Jun 2017: **Shandong University of Science and Technology** **Advisor: Prof. Naixia Mou**
College of Geodesy and Geomatics (Bachelor in Geographic Information Science) Qingdao, Shandong, China

PUBLICATION

- ◆ **Wang Peixiao**, Hu Tao, Gao Fei, Wu Ruijie, Guo Wei, et al. A Hybrid Data-Driven Framework for Spatiotemporal Traffic Flow Data Imputation[J]. **IEEE Internet of Things Journal**. 2022, 9(17):16343-16352. (SCI)
- ◆ **Wang Peixiao**, et al. A Multi-view Bidirectional Spatiotemporal Graph Network for Urban Traffic Flow Imputation[J]. **International Journal of Geographical Information Science**. 2022. 36(6):1231-1257. (SSCI)
- ◆ **Wang Peixiao**, Zhang Yan, et al. Urban traffic flow prediction: a dynamic temporal graph network considering missing values [J]. **International Journal of Geographical Information Science**. 2023. 37(4):885-912. (SSCI)
- ◆ **Wang Peixiao**, Hu Tao, Liu Hongqiang, et al. Exploring the impact of under-reported cases on the COVID-19 spatiotemporal distributions using healthcare workers infection data. **Cities**. 2022, 123:103593. (SSCI)
- ◆ **Wang Peixiao**, Ren Hui, Zhu Xinyan, et al. Spatiotemporal Characteristics and Factor Analysis of SARS-CoV-2 Infections among Healthcare Workers in Wuhan, China[J]. **Journal of Hospital Infection**. 2021, 110: 172-177. (SCI)
- ◆ **Wang Peixiao**, Wu Sheng, Zhang Hengcai, et al. Indoor Location Prediction Method for Shopping Malls Based on

- Location Sequence Similarity[J].**ISPRS International Journal of Geo-Information**. 2019,8(11):517. (SCI)
- ◆ **Wang Peixiao**, Zhang Tong, et al. Traffic Condition Estimation and Data Quality Assessment for Signalized Road Networks using Massive Vehicle Trajectories. **Journal of Ambient Intelligence and Humanized Computing**. 2022. doi: 10.1080/13658816.2022.2032081. (SCI)
 - ◆ **Wang Peixiao**, et al. Detection of Indoor High-Density Crowds via Wi-Fi Tracking Data [J]. **Sensors**, 2020, 20(18), 5078. (SCI)
 - ◆ **Wang Peixiao**, et al. Spatiotemporal Differences of COVID-19 Infection Among Healthcare Workers and Patients in China From January to March 2020[J].**IEEE Access**.2021,9(1):28646-28657. (SCI)
 - ◆ **Wang Peixiao**, Wang Hongen,et al. A hybrid Markov and LSTM model for indoor location prediction[J]. **IEEE Access**. 2019,7(1):185928-185940. (SCI)
 - ◆ **Wang Peixiao**, el at. Predicting Indoor Location based on a Hybrid Markov-LSTM Model[C].//**The 18th International Symposium on Web and Wireless Geographical Information Systems, Springer**,2020.(EI)
 - ◆ **Wang Peixiao**, Zhang Tong, Nie Shichao, Yang Jinxuan. A Causal Graph Convolutional Network considering Missing Values for Spatiotemporal Prediction [J]. **Acta Geodaetica et Cartographica Sinica**, 2022. accepted (EI)
 - ◆ **Wang Peixiao**, Zhang Hengcai, Wang Haibo, Wu Sheng. Spatial-temporal clustering by fast search and find of density peaks [J]. **Acta Geodaetica et Cartographica Sinica**, 2019, 48(11):1380-1390. (EI)
 - ◆ **Wang Peixiao**, Wang Haibo, Fu Mengying, Wu Sheng. Research on Semantic Location Prediction of Indoor Users [J]. **Journal of Geo-Information Science**, 2018, 20(12): 1689-1698. (EI)
 - ◆ **Wang Peixiao**, Wu Sheng, Zhang Hengcai, el at. A Method for Identifying Spatial and Temporal Aggregation Area of Indoor Crowd [J]. **Geomatics and Information Science of Wuhan University**.2021, 46(5): 790-798. (EI)
 - ◆ Ren Hui, **Wang Peixiao**, Guo Wei, Zhu Xinyan. Exploring the Spatiotemporal Characteristics of COVID-19 Infections among Healthcare Workers: A Multi-Scale Perspective[J]. **ISPRS International Journal of Geo-Information**. 2021,10(10):691. (SCI)
 - ◆ Fu Mengying, **Wang Peixiao**, Zhang Hengcai, Wu Sheng. A Crowdsourcing Method for Indoor Navigation Network [J]. **Journal of Geomatics Science and Technology**, 2019,36(01):100-104. (CSCD)
 - ◆ Fu Xin, Zhang Hengcai, **Wang Peixiao**. Automatic Construction of Indoor 3D Navigation Graph from Crowdsourcing Trajectories[J].**ISPRS International Journal of Geo-Information**. 2021,10(3):146. (SCI)
 - ◆ Fu Mengying, Zhang Hengcai, **Wang Peixiao**, Wu Sheng, el at. A Method for Constructing Indoor Navigation Networks based on Moving Object Trajectory [J]. **Journal of Geo-Information Science**, 2019, 21(5): 631-640.(EI)
 - ◆ Hu Tao, Wang Siqin, She Bing, Zhang Mengxi, Huang Xiao, Cui Yunhe, Khuri Jacob, Hu Yaxin, Fu Xiaokang, Wang Xiaoyue, **Wang Peixiao**, et al. Human mobility data in the COVID-19 pandemic: characteristics, applications, and challenges[J]. **International Journal of Digital Earth**. 2021,14(9): 1126-1147. (SCI)
 - ◆ Hu Tao, Guan Wendy, Zhu Xinyan, Shao Yuanzheng, Liu Lingbo, Du Jing, Liu Hongqiang, Zhou Huan, Wang Jialei, She Bing, Zhang Luyao, Li Zhibin, **Wang Peixiao**, et al. Building an Open Resources Repository for COVID-19 Research[J]. **Data and Information Management**. 2020, 4(3): 1-18.

Journal Reviewer

- ◆ Acta Geodaetica et Cartographica Sinica

- ◆ Geomatics and Information Science of Wuhan University
- ◆ IEEE Access
- ◆ Architectural Engineering and Design Management
- ◆ Wireless Communications and Mobile Computing
- ◆ BMC Medical Informatics and Decision Making